

St. Regis Paper Company Superfund Site
Cass Lake, Minnesota

Site Update: February 8, 2005



Removal and Remedial Updates

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Removal Update

- December 2003 UAO to International Paper for contaminated soil removal in site area
 - Fencing
 - Seeding
 - Geotextile fabric

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Removal Update

2004 Soil Removal

- June 2004: 2,359 tons
- September: 332 tons
- October: 603 tons

2005 Soil Removal

- Railroad area
- Fencing

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- Soil removal, fabric, fencing, and seeding,
corner of S 3rd and Norway

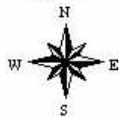
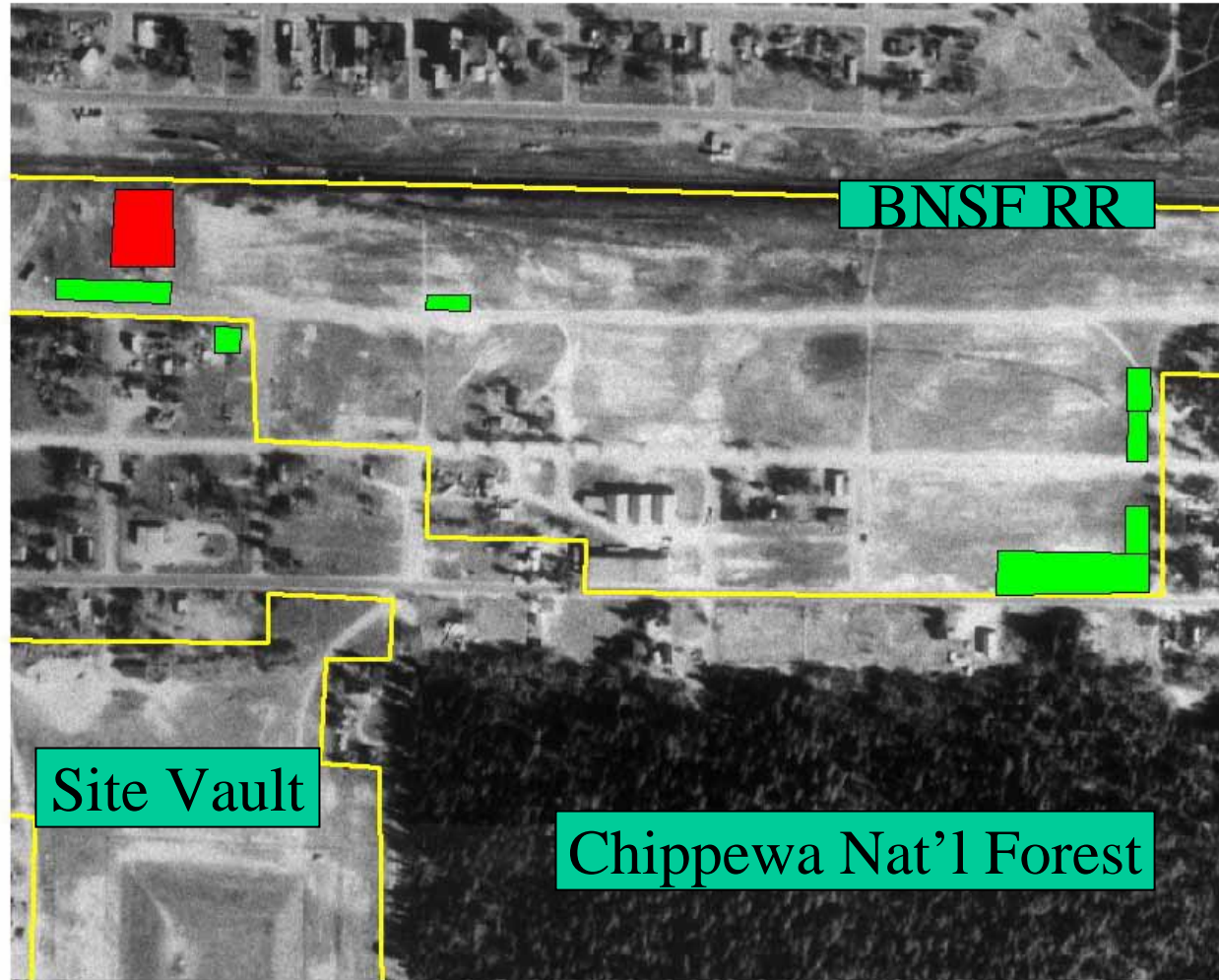
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Removal
Areas



200 0 200 Feet

- 2005 Removal Area
- 2004 Removal Area
- Site Operations Area

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Removal Update

2005 Soil Removal-Continued

- January 2005 soil results: Base samples all below target of 1 ppb dioxin
- Fencing and geotextile fabric to be removed when area reseeded and mulched in 2005

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Remedial Update

- Results of Spring 2004 Fish Collection by EPA/LLB
- August 2004 UAO to International Paper to conduct human health/ecological risk assessment
- Sept-Nov. IP collects over 300 investigative samples and archive samples
- Risk Assessment planned completion: Summer 2005
- EPA-sponsored site re-use discussions
- Five-Year Review, September 2005

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Spring 2004 Fish Collection

- Fish collected:

Pike Bay/Cass Lake

10 whole walleye
4 walleye eggs
5 sucker eggs
2 perch eggs

Bow String Lake

3 whole walleye
3 sucker eggs
3 perch eggs

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Spring 2004 Fish Collection

- Preliminary Results

Values for contaminants in Pike Bay/Cass Lake fish similar to levels in fish taken from Bow String Lake.

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Fall 2004 Fish Collection

- Fish collected by USEPA/LLB for analysis by IP:

Pike Bay/Cass Lake

15 fillet whitefish
5 partial whitefish
5 whitefish eggs
5 whole suckers

Bow String/Sand Lake

5 fillet tullibee
5 partial tullibee
2 tullibee eggs
5 whole suckers

- Fish samples collected for archiving: 22

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Soil Sampling

- Collection areas/screening samples/lab samples:

SW Area:	33 sample grids screened	16/8 lab
City Dump:	21 sample grids screened	10/5 lab
Chippewa Forest:	12 samples screened	5 lab
Former Op Area:	6 composite samples	6 lab
S. 2 nd Street:	4 composite samples	4 lab
Reference areas:	8 composite samples	8 lab

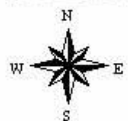
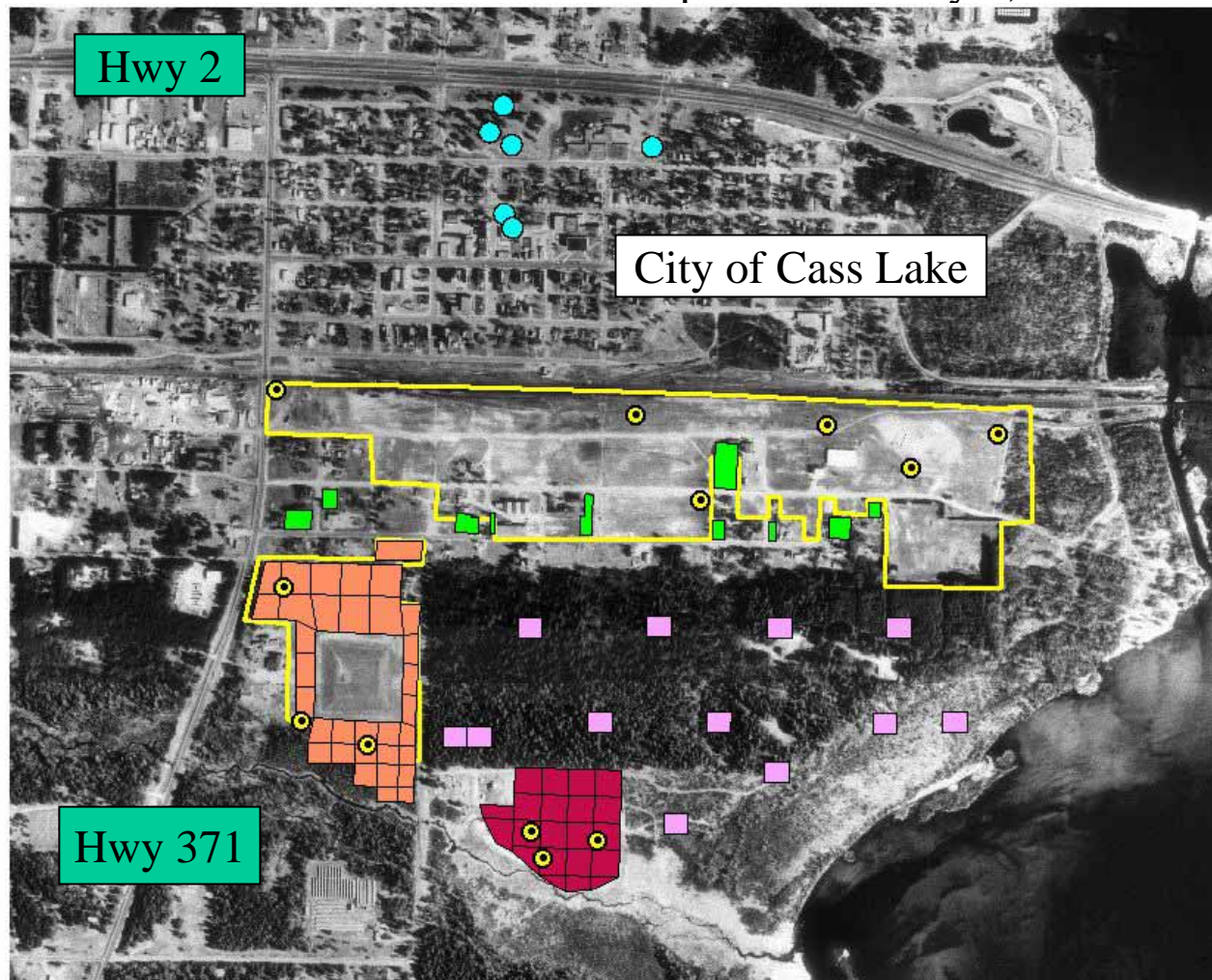
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Soil Sampling



- | | | |
|-------------------|---------------|-----------------------|
| Soil/plant/invert | Resident Dust | Site Operations Areas |
| Reference | City Dump | |
| Chippewa Forest | SW Area | |

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Road Sample Collection: S 2nd Street

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- Soil collection in former city dump area

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Soil invertebrate sampling

- Collection areas: Former operations area, SW Area, former city dump
- Number of samples:

1 grub sample-FOA	1 worm sample-FOA
2 worm samples-SWA	2 worm samples-Dump
- Soil toxicity testing: 6 FOA, 3 SWA, 3 Dump
- Soil bioaccumulation testing: 1 SW area, 1 Dump

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- Soil collection of worms and grubs
former operations area

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Wild Rice Sampling

- Collection areas: Pike Bay/Cass Lake channel,
Bow String Lake
- Number of samples: 3 composite samples-PB/CL
1 reference sample

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- Wild rice collection, Cass Lake/Pike Bay channel

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Plant Sampling

- Grass samples:
6 samples: FOA, 3 samples: SWA, 3 samples: Dump
- Gathered plants: 8 samples: Chippewa Forest, forested wetlands, Fox Creek area, channel area (analysis based on results of co-located soil samples)
- Garden produce: No sampling due to additives

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•Gathered Plant Collection:

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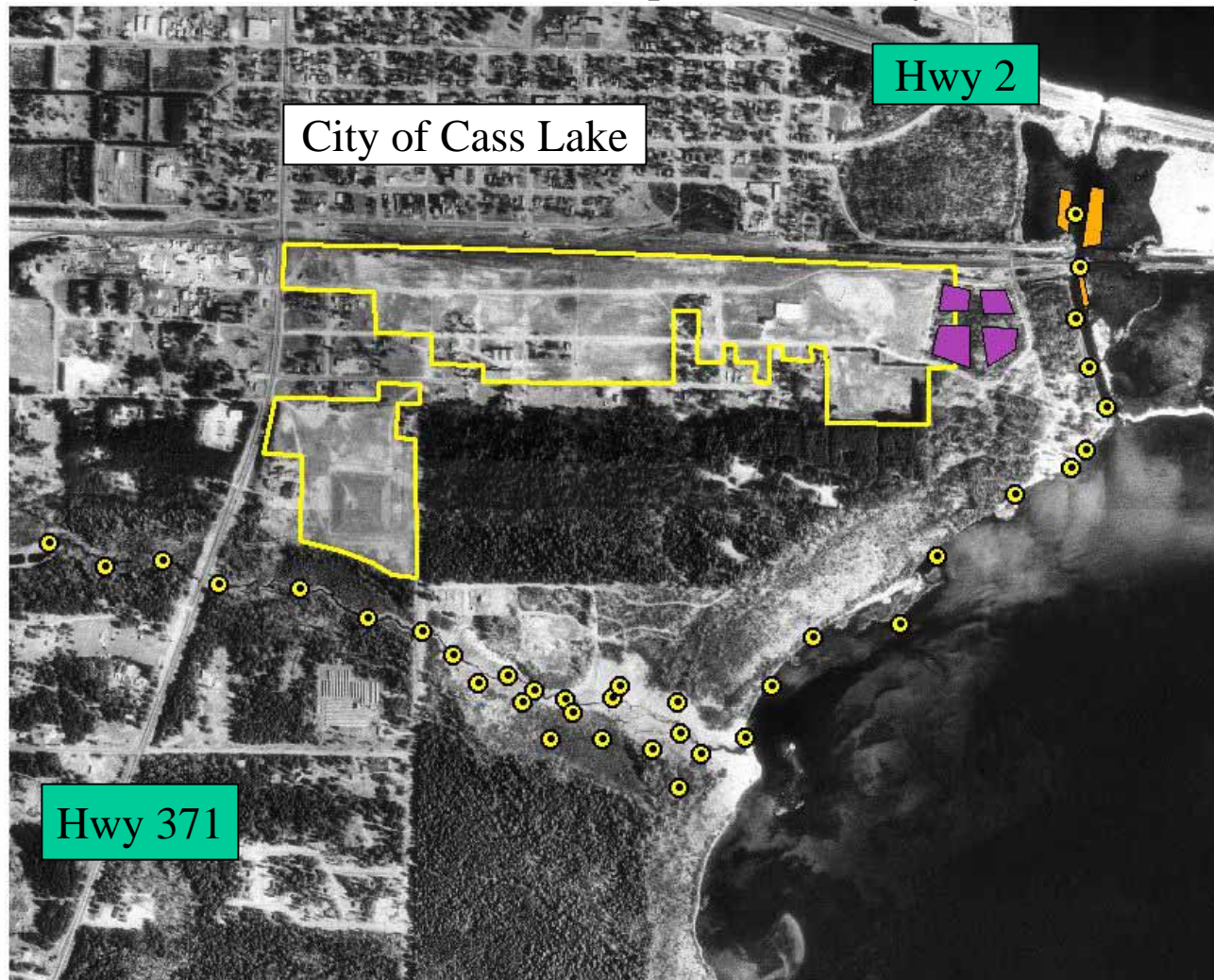
Sediment Sampling

Channel area:	5 samples
Pike Bay shore:	7 samples
Fox Creek:	10 samples
Fox Creek wetland:	10 samples
Forested wetland:	4 composite samples
Fox Creek reference:	3 samples
Fox Creek wtln. ref.:	3 samples

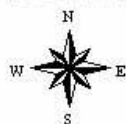
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Sediment
sampling



-  Sediment
-  Forested Wetland
-  Wild Rice
-  Site Operations Areas

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- Sediment sampling:
Fox Creek Wetland

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Sediment invertebrate sampling

- Samples collected:
2 crayfish samples-CL, 2 bivalve samples-channel
- Lab bivalve bioaccumulation testing:
2 channel, 3 Pike Bay, 2 Fox Creek(or 2 oligochaete)
- Lab oligochaete bioaccumulation testing:
4 channel, 10 Fox Creek

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- Crayfish Collection:
Cass Lake/Pike Bay channel

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- Mussel Collection:
Cass Lake/Pike Bay channel

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House dust sampling

- Collection areas: residents near St. Regis Site
- Number of samples: 10 composite samples

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- House Dust Collection:
Ten nearby residents

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Site Reuse Discussions

- U.S.EPA-sponsored
- Stakeholders to include local residents, Cass Lake City Council, Leech Lake Band, businesses, and responsible parties
- Opportunity to discuss property potential future uses
- EPA would incorporate community recommendations in site investigations

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2005 Five Year Review

- Necessary due to remaining contamination
- Continuation of current process
- Due Fall of 2005
- Review protectiveness of remedy:
 - Groundwater Extraction System
 - Surface water discharge
 - Soil removal and RCRA vault
 - Controls on exposure to contaminants
- Generate draft report-protectiveness statement
- LLB and MPCA review/comment on report
- Public meeting to present results